Scenario I	Scenario II

← 8 Feet →

2'

2'

5'

20 Feet

Scenario I – Calculated Application Area Supportive of Daily Flow is 160 ft^2. Considering an effective area per emitter of 3.14 ft^2, and an emitter spacing of 2 feet and a line spacing of 2 feet, 40 emitters will be distributed through the area. This pattern utilizes 78.5% of the calculated application area.

Scenario II – Calculated Application Area Supportive of Daily Flow is 160 ft^2. Considering an effective area per emitter of 3.14 ft^2, and an emitter spacing of 2 feet and a line spacing of 5 feet, 16 emitters will be distributed through the area. This pattern utilizes 31.4% of the calculated application area.

Area per emitter = πr^2 = (3.14)(1x1) = 3.14 ft^2 per emitter

Design Flow = 2,000 gallons per day
Loading Rate = 0.2 gallons per day per square foot
Land Application Area Needed = 10,000 square feet
Area Utilized with a 50-foot Radius Spray Head = 7,850 square feet

100 feet

100 feet

Area of Circle =
7,850 ft^2